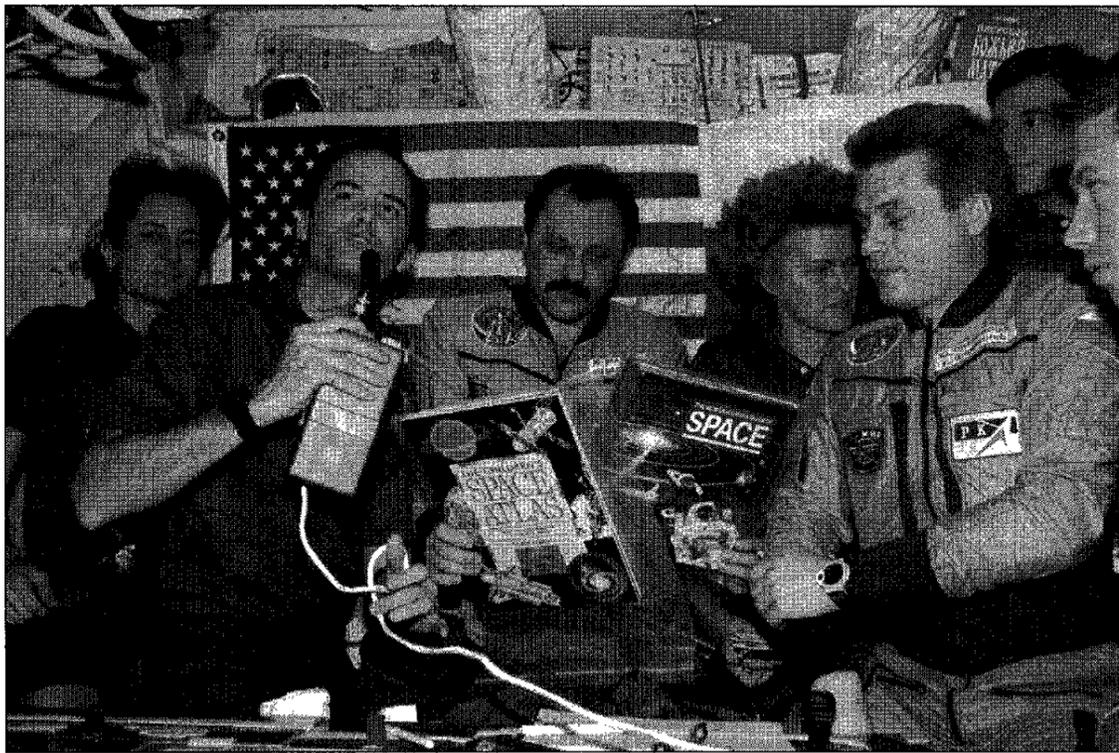


# Space News Roundup

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No. 12



NASA Photo

Russian cosmonauts and American astronauts exchange gifts in the base block module of the Russian Mir Space Station soon after *Atlantis* docked with the Russian outpost. From left are Mission Specialist Linda Godwin, Commander Kevin Chilton, Mir 21 Flight Engineer Yuri Usachov, Cosmonaut/Researcher Shannon Lucid, Mir 21 Commander Yuriy Onufrienko, Mission Specialist Ronald Sega and Pilot Rick Searfoss.

## Atlantis crew prepares for Sunday return

By Karen Schmidt

As the crew of *Atlantis* prepares to return Sunday, the STS-76 mission can be recorded in history books as the first to deliver more than 4,000 pounds of supplies to Mir and accomplish a space walk while docked. "We are beginning the colonization of space here," Commander Kevin Chilton said during a crew news conference Tuesday. "We have been to and from just as the earlier explorers were to and from North American from Europe and finally they settled and then they started to do productive work and founded this great nation. I kind of look at this in a similar light. We have been coming to and from space and when we get here permanently then we can start seeing the fruits of our labors."

day as the hatches were closed between the Russian station and *Atlantis* to pressurize the shuttle for the space walk. Godwin and Clifford floated out of *Atlantis*' airlock at 12:36 a.m. Wednesday and made their way to the Mir Environmental Experiment Payloads stored in *Atlantis*' cargo bay.

The two space walkers floated up to Mir's docking module and attached the MEEP experiments and unfolded the suitcase-like package to expose the experiments to Mir's environment. The experiments—designed to study the effects of space debris and materials to be used for the International Space Station—will remain attached to the docking module until late 1997 when the STS-86 crew will retrieve them and return



the experiments to Earth. The space walk, which also retrieved a video camera purposely left attached to the docking module and tested International Space Station tools, was completed without a hitch.

On Tuesday, the crew reported viewing the Comet Hyakutake and completed the transfer of supplies.

"We looked up into the night sky and saw this green glowing matter just streaking across the sky," Clifford said Tuesday. "It looked like it stretched from horizon to horizon. It was absolutely spectacular. It was brighter than the stars around it."

Please see **LUCID**, Page 4

## Electrical shocks spark action

By Rindy Carmichael

JSC's Safety Office reports that unsafe electrical devices are like "rattlesnakes waiting to bite us," and is urging all employees to attend next week's Electrical Safety Fair.

Bill Crittenden, Facility Safety Engineer for Hernandez Engineering, said there have been reports of faulty power strips producing sparks.

"Energized cords, power strips, and extension cords in hidden areas are like silent rattlesnakes waiting to bite us," he said. "You should never work on equipment that you can't see."

Jeff Kling, Flight Controller for Rockwell Space Operations, recently received a shock while unplugging a printer from a power strip surge protector. The surge protector was located behind some furniture on the floor and out of sight of the employee unplugging the printer cord. It apparently had become stuck to the floor, the plastic case had separated, and energized electrical components were exposed. "When I reached back to unplug the cord, I received a shock from the exposed components," Kling said.

The ACCO surge protector is

U.L. approved and equipped with a remote switch that turns the power strip on and off. This switch makes it very easy to forget and neglect the power strip after it is placed in service. This contributed to the power strip being left in place long enough for it to adhere to the floor.

"Since surge protectors can be found in offices throughout JSC, they should be monitored regularly," said Dan Clem of the Health, Safety and Environmental Compliance Office. "Approximately 12 percent of close calls reported to our office

Please see **COFFEE**, Page 4

## Former astronaut dies in plane crash

Former Astronaut Robert Overmyer died last Friday when the light aircraft he was testing over St. Louis County, Minn., crashed.

Memorial services were Tuesday at Clear Lake United Methodist Church.

"Bob Overmyer spent most of his adult life in the service of his country as a Marine aviator and Air Force test pilot and NASA astronaut," said JSC Director George Abbey.

"He played a key role in the U.S. space program beginning with Apollo and continuing through Skylab, Apollo-Soyuz and through the development, testing and operation of the space shuttle where he flew on the first operational shuttle mission and commanded a highly successful shuttle Spacelab mission," Abbey said. "More recently, his years of space flight experience were applied in private industry where he made major contributions to the development of the International Space Station."

Overmyer was selected as an astronaut in 1969. His first assignment was engineering development duties on the Skylab Program. From 1971 to 1976, Overmyer sup-

ported Apollo crews, the Apollo-Soyuz Test Project and the Space Shuttle Approach and Landing Test Program.

In 1982, Overmyer was the pilot for STS-5, the first fully operational flight of the shuttle with a crew of four. *Columbia*'s crew deployed the first two commercial communications satellites and conducted numerous experiments to document shuttle performance.

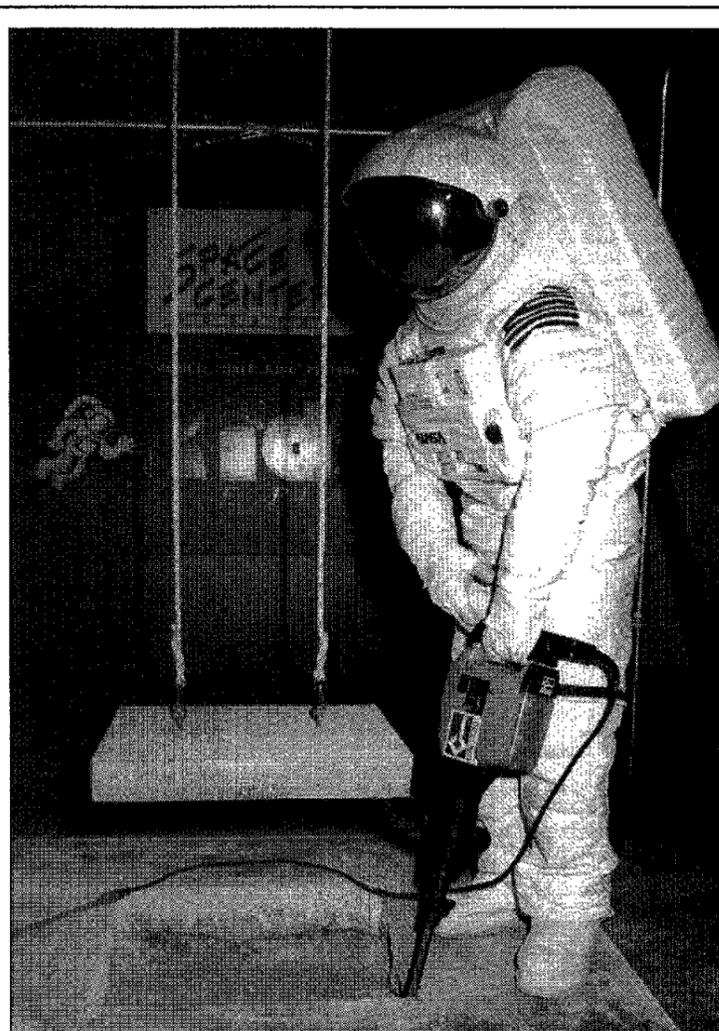
Overmyer flew again on STS-51B. As commander, he oversaw a crew of six conduct a wide range of scientific experiments on *Challenger*.

Overmyer retired from JSC in 1986 and later went to work for McDonnell Douglas as the deputy director of flight crew systems. He later became director of utilization and operations supporting space station. He retired from McDonnell Douglas in 1995 and was working as a test pilot for Cirrus Design Corp. He was testing a small engine prototype plane Friday when it went down near Duluth International Airport.

"He will be sorely missed by his many longtime colleagues and friends at NASA and in the aerospace community," Abbey said.



Overmyer



Space Center Houston's Commander Quest breaks ground on the new "Kids' Space Place" set to open June 1996.

## SCH adds new addition to facility

Space Center Houston will make its first major addition to the center since its grand opening in 1992, officials announced last week.

The \$1.2 million attraction, "Kids' Space Place," will be an interactive hands-on area targeting children ages 3-11. The addition, set to open June 1996, will allow children to experience different aspects of space exploration and the human space flight program.

"With the addition of Kids' Space Place, Space Center Houston opens up the excitement of the space program to those who will guarantee its future—the children," said Richard Allen, general manager of SCH. "In each and every activity area, the kids not only will have fun, but also learn about space exploration and basic science and math concepts in a hands-on, user-friendly atmosphere. We are proud to offer this new, high quality-attraction to the center."

Comprised of 17 different activity areas with 40 individual interactive stations to explore and investigate, Kids' Space Place will be a two-story attraction located within

Please see **MISSION**, Page 4

JSC

# Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store from 10 a.m.-2 p.m. Monday-Thursday and 9 a.m.-3 p.m. Friday. For more information, call x35350 or x30990.

**STS-1 Liftoff party:** 4:30 p.m. April 12. Tickets cost \$4, \$6 after April 9.

**JSC Picnic:** March 31 at Astroworld. Tickets cost \$12 for the first 3,800, \$20 after. Tickets includes all Astroworld rides and attractions, barbecue dinner and a free return ticket to Holiday in the Park.

**Hockey:** Houston Aeros vs Detroit Vipers 6 p.m. April 14 at the Summit. Tickets cost \$12.50.

**Children's Easter Party:** 10 a.m.-noon April 6 at the Gilruth Center. Tickets cost \$4 for children, \$1 for adults.

**Bluebonnet Bus Trip:** April 13, tickets cost \$15 including lunch. April 20, tickets cost \$10.

**Astroworld:** One day pass cost \$17.25.

**Fiesta Texas:** One day pass cost \$17.25.

**Six Flags:** One day pass cost \$17.25.

**Sea World:** Adult tickets cost \$24.50, Children (3-11) cost \$17.25.

**Space Center Houston:** Discount tickets, adult, \$8.75; child (3-11), \$7.10.

**Movie discounts:** General Cinema, \$4.75; AMC Theater, \$4; Sony Loew's Theater, \$4.75.

**Stamps:** Book of 20, \$6.40.

**Certificate books:** Order popular brand coffees and cereals by mail and receive substantial discounts. Booklet cost \$30.

**JSC history:** *Suddenly, Tomorrow Came: A History of the Johnson Space Center.* Cost is \$11.

**Metro tickets:** Passes, books and single tickets available.

**Upcoming events:** Houston International Festival April 20-21 and April 27-28. Tickets cost \$2.25. Galveston Historic Home Tour May 4-5 and May 11-12. Tickets cost \$13.50.

JSC

# Gilruth Center News

**EAA badges:** Dependents and spouses may apply for photo identification badges from 7 a.m.-9 p.m. Monday-Friday; and 8 a.m.-4 p.m. Saturdays. Dependents must be between 16 and 23 years old.

**Intercenter run:** Begins April 1. For more information call the Gilruth.

**Fitness Challenge:** 1996 Fitness Challenge runs to Aug. 31. Employees are eligible to win \$100 gift certificates. For more information call Larry Wier at x30301.

**Defensive driving:** One day course is offered April 20. Cost is \$25. Interested employees should call the Gilruth.

**Stamp club:** Meets at 7 p.m. every 2nd and 4th Monday in Rm. 216.

**Aerobics:** new classes will begin April 2.

**Women's self defense:** Martial Arts training for women only from 5-6 p.m. Tuesdays and Wednesdays. Cost is \$25 a month.

**Weight safety:** Required course for employees wishing to use the weight room are offered from 8-9:30 p.m. April 11. Pre-registration is required. Cost is \$5.

**Exercise:** Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays.

**Aikido:** Martial arts class meets from 6:15-7:15 p.m. Tuesday and Wednesday. Cost is \$25 per month. New class begins April 2.

**Ballroom dancing:** Cost is \$60 per couple. For additional information call the Gilruth Center at x33345.

**Country and Western dancing:** Beginner class meets 7-8:30 p.m. Monday. Advance class meets 8:30-10 p.m. Monday. Cost is \$20 per couple.

**Fitness program:** Health Related Fitness Program includes a medical examination screening and a 12-week individually prescribed exercise program. For more information, call Larry Wier at x30301.

JSC

# Swap Shop

## Property

**Sale:** Waterfront lot, .5 acres on Dickinson Bayou, new bulkhead, trees, \$65k obo. x31370 or 334-7412.

**Sale:** Webster, 2-2-2CP, condo, new A/C, solar screens, kitchen & bath upgrade, w/bp, ceiling fans, W/D, connections, \$37.5k. 280-0285

**Lease:** El Lago, 4-2-2, gameroom, island FPL, hardwood floors, enclosed patio, decking, jacuzzi, lg trees, \$1.2k mo + \$1.2k dep. 333-6821 or 326-2093.

**Sale/Lease:** CLC, Bay Glenn, 3-2-2, \$1,075 mo + dep or \$107k. x38274 or 486-5072.

**Sale:** 130 cleared acs, 5 pastures, 15 mi east of Tyler, house, hay/horse barns. 488-5058.

**Sale:** LaPorte/Creekmont, 3-2-2, FPL, new roof, new carpet/linoleum, fresh paint, \$65.5k. 992-5080.

**Sale:** LC, 3-2-2, house, 3 acs, barn, pool, beautiful setting, \$140k. 554-6138.

**Sale:** LC, Bayridge, foreclosure, 3-2-2, cul-de-sac, new roof, \$55k make offer. James, 286-1934.

**Rent:** Duplex in Santa Fe, TX, 3-1-5, appli, both formals, CA/H, W/D conn, sm yard, non-smokers, no pets, \$550 mo + dep. x40250 or 409-925-7839.

**Sale:** Wooded lot 90'x135' in Taylor Lake Estates, \$39.5k can finance. Don, x38039 or 333-1751.

**Sale:** Dickinson, 3-2-2, FPL, new paint, nice neighborhood, \$85k. 337-3459.

**Sale:** LC, Meadow Bend, 3-2-2, 1595 sq ft, ex cond, spa, new floors, \$75k obo. 334-3615.

**Lease:** Brookforest, 3-2-2, furn or partially furn, FPL, spa, ceiling fans. x34132 or 486-5331.

**Sale:** Southbelt area, 3-2-2, new roof, A/C, & heat, alarm sys, covered patio, deck, \$73.5k. 484-2192.

**Sale:** Brook Forest, 4-2-2, 2300 sq ft, FPL, new carpet/paint/tile, fence, A/C & heat, \$140k. Brian, x32635 or 480-4351.

**Sale/Rent:** Condo off Space Center Blvd, 1 BDR & study. 997-5763.

## Cars & Trucks

'91 Airex 36" motorhome, good cond, low mileage, \$43k. Brian, x53822 or 996-1068.

'95 Chevy S10, LS, P/U, ext cab, 5 spd, V6 gas, A/C, AM/FM/cass, cruise control, purple/silver, ex cond, garaged, \$14.5k. Dee, x36505.

'90 Dodge Shadow, white, 5 dr, auto, tilt wheel, ex cond, low miles, \$5.2k. Roland, x48540 or 992-1430.

'72 Karmann Ghia coupe, ex cond, 20k mi on rebuilt engine, \$4k obo. x31440 or 333-5693.

'82 Corvette Collectors Edition, 42k mi, loaded, show car cond, garaged, \$14,850. Larry, x30559.

'76 MG Midget, Brit Racing green, restored, ex cond, \$5k obo. Shane, 244-1022 or 992-1162.

'90 LeBaron Prem conv, ex cond, 29k mi, new tires, CD, leather, 7 yr warr, \$8.5k. 488-6526.

'82 Corvette, 350 auto, electric blue, gray leather, 95k mi, ex cond, \$10.5k. Brian, 488-4383.

'84 Toyota Tercel wagon, AWD, AM/FM/cass, auto, P/B, P/S, cruise, A/C, 125k mi, \$1.1k obo. 474-3507.

'79 Jeep Wagoneer 4x4, 360 V8, auto, A/C, runs good, needs work, \$900 or trade. 333-6821 or 326-2093.

'85 Honda Prelude, sunroof, 5 spd, new clutch, runs good, \$1.6k. 947-0354.

'85 Ford Ranger PU, V6, auto, A/C, P/S, P/B, AM/FM, runs good, \$1.6. 947-0354.

'93 Ford Probe GT, black, P/W & P/L, P/seats/mirror, sunroof, 5 spd, AM/FM/cass, key-less entry, anti-theft device, 36k mi, \$12.9k. x34016 or 335-9025.

'57 Chevy BelAir, V8, P/S, P/B, auto, 4 dr, A/C

doesn't work, \$4,950. Dale, x30432.

'94 Camaro, maroon, A/C, cruise, AM/FM/cass, alloy wheels, 5 spd, new tires, 45k mi, \$11.3k. x31443 or 997-8044.

'90 Nissan Stanza XE, pwr, A/C heat, auto, 81k mi, ex cond, \$5.5k. Linda, 283-0311 or 409-925-4862.

'94 Chevy S10 Vortec, red, V6, P/W, P/L, 12.3k mi, \$11.2k. Donald, 244-4864.

'70 VW Karmann Ghia conv, 1 owner, 57k mi, new tires, top 2 yrs old, needs paint, \$3,250. 997-6868.

'87 Mercury Grand Marquis, black ext, gray cloth int, ex cond, clean, auto, A/C heat, AM/FM/cass, P/B & P/S, cruise, tilt, \$3.9k. 333-0267.

'90 Honda Prelude SI, black/black, sunroof, 5 spd, new brakes, good cond, \$7.2k obo. 334-7961.

Street legal Dune Buggy-rail type, ex cond, \$2.2k. Rick, x34572 or 482-2423.

## Boats & Planes

'85 Chris Craft Sportsman, 36', twin Mercruiser engines, shower, toilet, refrig, low eng hrs, lg open back deck, \$35k obo cash only. 339-1197.

'84 Century Riviera 6 Meter ski boat, '95 Shorelander galvanized trailer, 260 Hp Mercruiser, \$10k. x30166 or 286-7374.

Sailboat, Sovereign 24', ready to sail, ex cond, main, jib, 125% genoa, depth sounder, head, stove & safety equipment, electric start Johnson OB, \$4,950 make offer. Mike, 282-2727 or 286-1691.

## Audiovisual & Computers

486DX4-100, 8MB/850MB, multimedia, 14" SVGA, \$995; 486DX2-66, 8MB/850MB, 14" SVGA, \$695 or \$895 multimedia; 75/100/133/156 Pentium, 8MB/635MB, 14" SVGA, \$969/1039/1209/1539, all w/Win 3.11 or 95 + Office 7 warr. Don, 333-1751.

Nokia carphone w/2 hr battery & charger, 100 number programmable memory, extra features, \$100 firm. x39034 or 474-2660.

Monitor, 14" color, NEC Macsynce; Mac compatible, \$150. 286-0592.

Mac Power book 145B w/ 8 MB RAM/80 MB HD, Global Village Teleport Gold 14.4kpbs modem, \$800. Chris, 333-6962 or 534-3393.

Dell 486DX2-66MHz full tower sys, w/15" monitor, 16bit Media Vision sound card, VSR 14.4 bps fax/modem 450MB hard drive, 8MB RAM, joystick, \$900. Kent, x34857 or 333-51881.

Technics stereo cass w/dual speakers, good cond, \$100; Zenith 19" color TV, \$25. 992-3366.

CD ROM games, Kings Quest 7 w/hint book, \$40; Under a Killing Moon, \$40; Sam & Max, \$20; Eroy goes Bugzerk, \$15, all in orig boxes w/books. Chris, x38638 or 998-2665.

486DX2/66 computer, mid tower case, 8MB RAM, 541MB HD, CD-ROM, Sound Blaster 16, spkrs, 3.5 FD, 5.25 FD, kybd, mouse, 1MB video, 14" SVGA, 28Ni monitor, 256k cache, VLB, \$900 obo. 488-7977.

PC 80386 DX-33, w/387, 10MB RAM, 110 & 170 HD, Soundcard, modem, 1MB SVGA & monitor, \$600 obo; Adobe Photoshop LE for Macintosh, \$40; Excel 4.0 for PC, \$40. Terry, x36351 or 996-9164.

Complete PC sys, 486DX4/100, SVGA, 1GB HD, 8MB RAM, 2x CD-ROM drive, Soundblaster, 14.4 fax/modem, S/W, Windows S/W, \$1,450. John Gardner, 527- 4195 or 992-9013.

486DX2-66, 8MB RAM, 420MB HD, SVGA video, \$650; 386DX40, 4MB RAM, SVGA video, 170MB HD,

## Today

**Women's History luncheon:** The Equal Opportunity Programs Office and the 1996 Women's History Month Committee will host the JSC's Women's History Month observance from 11:30 a.m. - 1:30 p.m. March 29, at the Gilruth Center Ballroom. This year's theme is "Building the Future on the Past: Women in Flight." For more information call Jessie Hendrick at x31203.

**Cafeteria menu:** Special: tuna noodle casserole. Total Health: baked potato. Entrees: steamed salmon steak, baked chicken, fried cod fish, ham steak. Soup: seafood gumbo. Vegetables: French cut green beans, cauliflower with cheese, green peas, black-eyed peas.

## Saturday

**Fun run:** The second annual ISC 5K Fitness Run/Walk will be held beginning at 6:30 a.m. March 30. For information call Pete Frank at 335-6110 or Laila Pfu at 280-3873.

## Monday

**Cafeteria menu:** Special: breaded outlet. Total Health: crispy baked chicken. Entrees: stir fry pork and rice, baked chicken, smoked sausage with German potato salad, French dip sandwich. Soup: cream of broccoli. Vegetables: okra and tomatoes, peas, navy beans, baby carrots.

## Tuesday

**Electrical Safety Fair:** The Electrical Safety Fair will be held from 10 a.m.-2 p.m. April 2 in Teague Auditorium. For more information, call Rindy Carmichael at x45078.

**ABWA meets:** The American Business Womens Association, Clear Lake Area Chapter will meet at 5:30 p.m. April 2 at Bay Oaks

Country Club. For more information call Nancy Hutchins at x34006.

**Cafeteria menu:** Special: fried chicken. Total Health: vegetable lasagna. Entrees: Salisbury steak, steamed pollock, vegetable lasagna, French dip sandwich. Soup: split pea and ham. Vegetables: mixed vegetables, French cut green beans, pinto beans, vegetable sticks.

## Wednesday

**Toastmasters meet:** The Space-land Toastmasters will meet at 7 a.m. April 3 at the House of Prayer Lutheran Church. For more information call Jeannette Kirinich x45752.

**AIAA lunch:** The American Institute of Aeronautics and Astronautics will host a luncheon at 11:45 a.m. April 3 at the Gilruth Center. Ivan Walker will discuss "Natural and Artificial Hands." For more information call John Sunkel at x38591.

**Astronomy seminar:** The JSC Astronomy Seminar will meet at noon April 3 in Bldg. 31, Rm. 129. An open discussion meeting is planned. For more information, call Al Jackson at 333-7679.

**Cycle club:** The Space City Cycle Club will meet for a 25-mile ride beginning at 6 p.m. April 3 at the University of Houston Clear Lake soccer field. For more information on this ride and weekend rides call Mike Prendergast at x45164.

**Cafeteria menu:** Special: stuffed bell pepper. Total Health: baked potato. Entrees: stir fry chicken & rice, wieners & beans, fried fish, western special, beef, chicken sausage, Reuben sandwich. Soup: seafood gumbo. Vegetables: buttered rice, Italian green beans, corn O'Brien, peas and carrots.

## Thursday

**Warning system test:** The site-wide Employee Warning System will

under go its monthly audio test at noon April 4. For more information call Bob Gaffney at x34249.

**Industry presentation:** Oracle Corporation will present "Enterprise Solutions for Data Warehouse," at 9 a.m. March 28 in the parking lot across from Bldg. 25. For more information, call Dean DesJardins at x34132.

**Cafeteria menu:** Special: barbecue smoked link. Total Health: roasted turkey breast. Entrees: turkey and dressing, beef stroganoff, steamed pollock, French dip sandwich. Soup: tomato Florentine. Vegetables: Spanish rice, lima beans, buttered squash, oriental vegetables.

## Friday

**Cafeteria menu:** Special: meat sauce and spaghetti. Total Health: baked potato. Entrees: rainbow trout, liver and onions, beef cannelloni, ham steak, fried cod fish, Reuben sandwich. Soup: seafood gumbo. Vegetables: steamed broccoli, breaded okra, cut corn, black-eyed peas.

## April 10

**MAES meets:** The Society of Mexican American Engineers and Scientists will meet at 11:30 a.m. April 10 in the Bldg. 3 Cafeteria executive dining room. For more information call Michael Ruiz at x38169.

**PSI meets:** The Clear Lake Chapter of Professional Secretaries International will meet at 5:30 p.m. April 10 at the Holiday Inn NASA Road 1. For more information call Elaine Kemp at x30556.

## April 11

**NPM meets:** The National Property Management Association will meet at 5 p.m. April 11. For more information and meeting location call Marie-France Smith x39309.

\$375; others available. Charles, x36422 or 280-9650.

Colorado Memory 250MB tape backup w/controller card, 3 tapes, cleaner. 992-5659.

CompuAdd 386 w/1.2MB 5.25" FD, 40MB HD, 14" Sansung CVGA, mouse, misc S/W, Panasonic KPX-1124, 24 pin dot matrix printer, \$500 obo; IBM PCjr, w/expansion chassis, IBM color monitor, 640K RAM, 2-5.25" FD, \$100 obo. Richard, x31488.

Smith Corona personal word processor "960", extras, Cronal-CALC, Lift-Off correcting cass, script print wheel & 12 disk, \$295. 708-6179.

## Musical Instruments

Electric guitar Peavey Predator AX, ex cond, make offer. 554-6200.

Tall upright piano & stool, solid wood, very good condition, \$200. 286-5816.

## Photography

Olympus Infinity Super Zoom camera, works perfectly, \$75. 992-3366.

Nikon FE, Nikor 50mm, Kiron 70-210, Sunpack flash, \$275. x37069.

35mm camera, Minolta Maxima 5000, 70-200mm zoom, auto focus, rewind, advance flash attachment, extra manual, \$375. Pete, 479-0276.

## Pets & Livestock

Free to good home, Chinese Shar-pei, AKC, papers, fem, fawn color, 3 yrs. x34908 or 409-925-7224.

Easter bunnies, feed & instructions included, cages available, \$15. 554-6200.

Beagle, brown & white, spayed-female, lovable pet, has shots & licenses, \$50. x21971 or 338-1506.

## Household

Color TV, Montgomery Wards, 25" console, works well, \$150 obo. Glenn, x38825 or 487-8018.

Drexel solid wood dining table, 8 chairs, 2 arm, 6 side & buffet, transitional style fruitwood finish, ex cond, \$1.5k. susan, x36151 or 486-8865.

Sylvania 25" color TV swivel base console w/remote, \$180 obo. Wilbur, x39367 or 482-9479.

White metal bunkbed, twin upper/lower, ex cond, \$75; antique ornate iron bed, twin 3/4, \$110. x37639 or 409-925-7765.

Black & glass dinette w/4 chairs, quad stand w/large beveled glass top, good cond, x31346 or 470-7099.

Bench Craft 5 piece sofa, 2 recliners, corner, single, dbl w/roftaway bed, blue & gray, \$1.5k obo; 6 drawer dresser w/mirror, \$300. 332-2453.

Antique telephone table, circa 1920, ex cond. 992-3366.

Dunca Phyfe mahogany dining suite, 6 chairs & china cabinet, \$1.5k. 996-0152.

Electric water heater, 60 gal, ex cond, \$50. Dan, 282-5239 or 486-1102.

2 Futon w/covers, no frame, \$100 & \$75 obo. Sheri, x33095 or 480-1960.

Western style 6 piece solid oak family room furniture, \$550. 286-0022.

Sofa, ex cond, pastel colors, throw pillows, scotchguarded, \$250. x38342.

Sleeper sofa, floral design, ex cond, \$150. 335-7184.

Cream rattan lounge chair, ottoman, glass top side table, peach/seafoam/orchid on cream background cushions, \$300; yellow rattan bedroom set, dbl

poster headboard, triple dresser/mirror, bedside table, white top dresser/table, \$300. 480-4131.

## Wanted

Want housemate to share 3-2-5, 4-story waterfront townhouse, private hot tub & tanning bed, 2 bars, 2 decks overlooking canal, boat slip, lofted study, lots of storage area, \$550/mo + 1/2 utilities. Terry, x39234 or 335-0113.

Want female to share 3-2-2 w/same, \$300 deposit, \$350/mo + 1/2 utilities. \$332-8417.

Want female roommate, non-smoker, to share 4-2 house, CLC Brookforest, \$350/mo bills pd. 480-4008.

Want non-smoking roommate to share 3-3-3 in LC, \$275 mo + 1/3 util. Rob, x31027 or 334-3529.

Want non-smoking housemate to share split-plan, 1250 sq ft, condo, kitchen priv, \$300 + 1/2 utilities. Gary, 3

# Long Haul

## STS-75 crew brings home 16 days' worth of scientific data

**T**he STS-75 turned out to be one of the longest on record as *Columbia's* crew collected scientific data for scientists around the world during their 16 days on orbit. During the flight, a total of four Americans, four Russians and four Europeans were in orbit at the same time following the launch of the Mir 21 crew aboard a Soyuz spacecraft.

Although the Tethered Satellite broke its tether and reentered the Earth's atmosphere last week, scientists collected extensive data on tether dynamics and electricity generation and developed goals for further study. The United States Microgravity Payload materials processing experiments exceeded scientists' expectations.

*Columbia* landed March 9 after one extension day for science, and one extension day and one extra orbit for weather, covering some 6.5 million miles in all over 15 days, 17 hours, 40 minutes in orbit. Through it all the crew took photos to share:

From top to bottom, left to right:  
 1) Mission Specialists Jeff Hoffman, left and Maurizio Cheli set up an experiment in the glovebox on *Columbia's* middeck.

Glovebox experiments tested combustible materials in microgravity;

2) The traditional in-flight crew portrait back row from left are Cheli, Mission Specialists Claude Nicollier, Pilot Scott Horowitz and Payload Specialist Umberto Guidoni. Front row from left are Payload Commander Franklin Chang-Diaz, Commander Andy Allen and Hoffman;

3) The Tethered Satellite System was reeled out from *Columbia's* cargo bay before breaking free of its tether and drifting off into space;

4) Nicollier mans the commander's station on *Columbia's* flight deck during an engine firing sequence for the USMP;

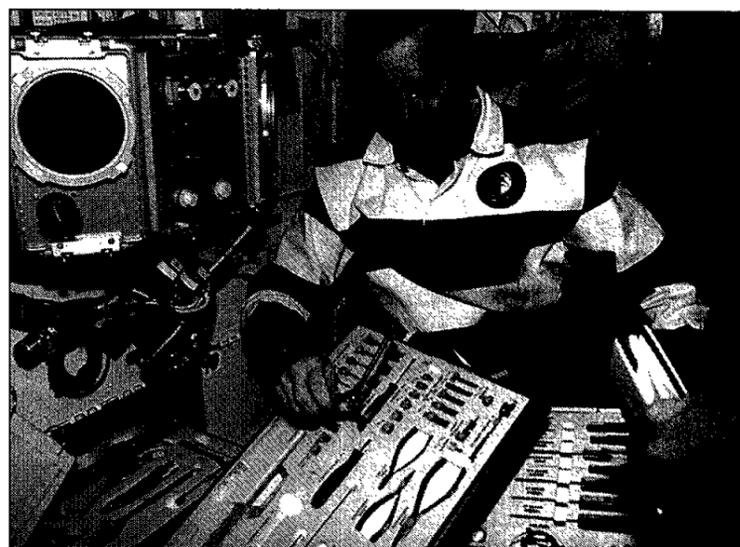
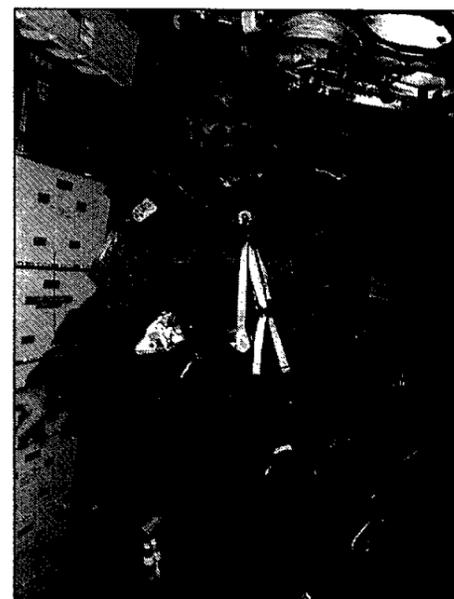
5) Hoffman, left, and Chang-Diaz celebrate their 1,000 hour mark in orbit;

6) Guidoni dons his launch and entry suit for the return trip to Kennedy Space Center;

7) Cheli operates the Tether Optical Phenomenon System on *Columbia's* flight deck;

8) Allen sets up systems for a television downlink on *Columbia's* flight deck; and

9) Horowitz looks over tools he would use to perform in-flight maintenance on *Columbia*. □



# Mulholland, Harris take new roles at White Sands

In an effort to further improve services to both internal and external customers, the Propulsion Test Office at the White Sands Test Facility has been reorganized.

The move is designed to consolidate responsibility for shuttle depot operations and propulsion testing under one manager, and responsibility for propulsion facilities under another manager.

John Mulholland will take on the duty of shuttle depot and test manager. He will be responsible for budget, schedule and



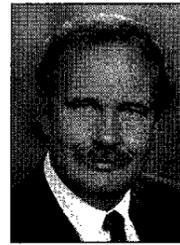
Mulholland

overall coordination of shuttle-related projects including shuttle depot operations and capabilities development, Orbital Maneuvering System/ Reaction Control System fleet leader testing and Improved Auxiliary Power Unit testing.

Mulholland joined the WSTF staff in 1986 and has held positions of increasing responsibility—including operations director on numerous shuttle propulsion test projects—and has developed expertise in shuttle propulsion systems and components

which has been recognized and utilized extensively by other organizations, including JSC and Kennedy Space Center. He has served as project manager of the orbiter maneuvering system/reaction control system fleet leader project since 1993 and of the depot development and repair effort since 1994.

David Harris will become propulsion facilities manager and will be responsible for budget, schedule and overall coordination of maintenance, modification



Harris

and non-test operations in the propulsion facilities.

Harris came to WSTF in 1982 and has developed expertise in altitude simulation systems and propulsion test facility design and activation, with experience as operations director for altitude simulation systems and space station propulsion module testing, design/construction responsibilities for test stand 303, and activation manager of test stand 302 to support space station testing.

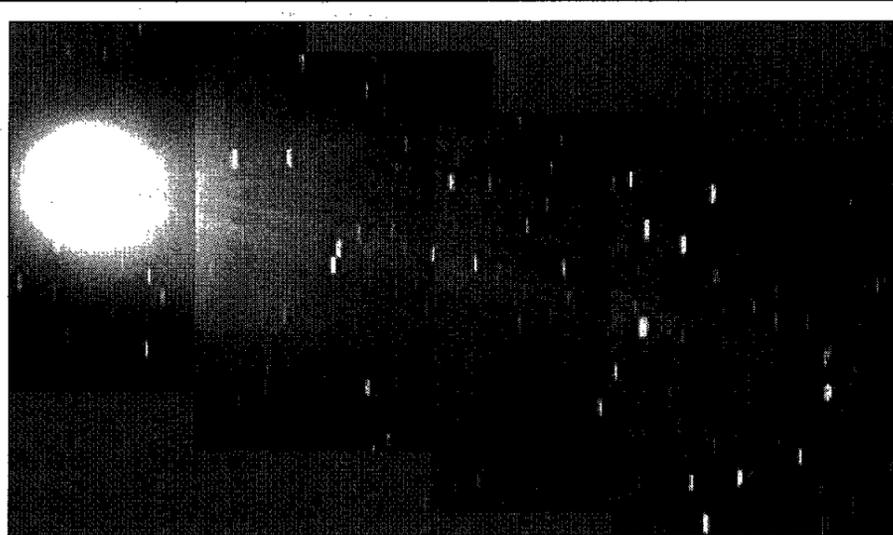
## Space station design review meeting held

NASA, its international partners and contractors met this week at JSC for the second Space Station Incremental Design Review.

The three-day review began Tuesday and continued through Thursday. The review was designed to verify that the International Space Station system design will support requirements for safe and successful launch package integration, launch, on-orbit assembly, operations and utilization of the vehicle.

The review focused on the first eight flights of the station assembly sequence, beginning with the launch in November 1997 of the Russian-built FGB control module, continuing through the installation in September 1998 of the large photovoltaic arrays that will provide electrical power for the U.S. laboratory module, and concluding with launch of the U.S. lab in December 1998.

The status of all major station subsystems was covered, as were critical operations such as extravehicular activities and robotics and reviewed potential adjustments to the assembly sequence related to Russian segments of the space station. The meetings involved representatives from NASA and its prime International Space Station contractor, Boeing, as well as international partners Canada, the European Space Agency, Japan and Russia.



**COMET HYAKUTAKE**—JSC's Al Kelly of the Mission Operations Business Management Office captures the Comet Hyakutake using a 380mm lens on a home-built astronomical camera. On Jan. 30, Yuji Hyakutake in Japan discovered this new comet and subsequent observations determined that the comet passed as close as 9.3 million miles from Earth on Monday. The comet is expected to continue to be a bright object throughout March, April and May. Comet Hyakutake is the brightest comet since Comet West in 1976.

## Panel discussions to focus on teaching

JSC's Careers Plus+ Program will sponsor two panel discussions for employees interested in teaching high school or college-level courses.

Employees interested in becoming high school teachers may attend a partners in education high school panel discussion from 1-3:30 p.m. April 3 in Bldg 45, Rm. 304. Employees can learn more about the certification process, the teaching environment in the public school districts and make contacts for teaching positions. Employees interested in

becoming college instructors may plan to attend the panel discussion set for 1-3:30 p.m. Thursday in Bldg. 45, Rm. 304. Panel members including former JSC employees who now teach in colleges or universities and representatives from local colleges or universities. Following the discussion, there will be a two-hour class, "Preparation for College Teaching," by the Career Transition Assistance Program.

For more information call the Human Resources Development Branch at x35266.

# Mission Kidtrol puts children in commander, ground, station seats

(Continued from Page 1)

the existing facility, adjacent to SCH's Starship Gallery.

The interactive play areas include:

**Lunar Jumper:** This attraction will give children an opportunity to experience one-sixth the Earth's gravity simulated by a system of cables and compressed air.

**Lunar Rover:** A replica of the actual lunar rover will feature a monitor in front of the vehicle playing a moving landscape as a rumbling seat and a moving power throttle give children the feeling of driving on the Moon's surface.

**Mission Kidtrol:** This attraction is a five-station mockup of communications consoles where kids will be given a mission book to complete tasks. This activity provides an opportunity to learn the importance of flight and ground teams working together.

**Space Shuttle:** Once children have guided the shuttle through a successful mission, they can take their turn at the commander's seat in the shuttle. Equipped with ground control

communication, young shuttle pilots will have a mission book of tasks to complete.

**Escape Hatch:** When they get ready to leave the second floor space shuttle, children can exit via the escape hatch, a covered curling slide that reaches between the two floors.

**Apollo Command Module:**

Kids can climb aboard this simulated interior of the Apollo capsule and execute tasks while lying on their backs.

**Space Station:** This mock will give children the opportunity to conduct experiments in the station setting. Kids can test their heart rate and body temperature while completing a variety of tasks in the mission task book.

**Mars Rover:** One of the tasks in the space station mock up is to drive a remote Mars rover located on the first floor. Guests downstairs can watch a video monitor that will show real-time explorers upstairs using

computer monitors to perform mission tasks by remote control.

**Rocket launcher:** Children will control a launch from start to finish, from activating the pump to fuel the rocket to hitting the button that begins the launch sequence. Amid warning lights and sounds the rocket will launch to the top of SCH's five-story structure.

**Building a Rocket:** Rocket builders will utilize a computer program that will instruct on how to actually build a multi-stage rocket.

**Flying in Space:** Children will be strapped into a Manned Maneuvering Unit that simulates pitch and roll while trying to focus a laser on targets. A second display will teach young explorers about yaw, pitch and roll with hands-on shuttle models.

**Wind Tunnel:** By placing their hands into a glove in the middle of the Wind Tunnel, children can feel the effects of wind resistance

and learn the concept of lift and the importance of the shape of wings on spacecraft.

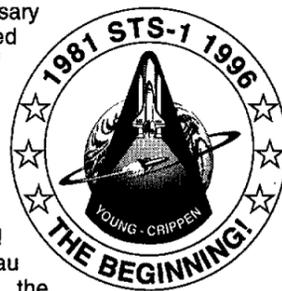
**Aliens From Another Planet:** Visitors may think they have come from another planet when they step on scales that simulate weight on another planet and check out mirrors that create distorted images.

**Cosmic Weightlifter:** By pushing a button, the barbell in this area can be set to simulate what it would weigh on another planet.

**Gravity Wells:** By turning a hand crank that operates two different-sized wells, children can experience how different levels of energy must be applied for similar results.

**Earth From Space:** At these stations, visitors will be able to imagine they are looking out the windows of the shuttle as it orbits the Earth. Touch-screen technology will allow guests to choose a designated spot to view from space.

**Lego Craters:** Children can let their imaginations run wild and create their own vision of space exploration.



## Changes, updates to STS-1 party

JSC's "Liftoff Party" celebrating the 15th anniversary of STS-1, set for April 12 has been moved, improved and expanded.

The party will still be held April 12 but will now be at Space Center Houston. The party, originally scheduled from 4:30-7:30 p.m., will now be from 5-9 p.m.

Why the changes? April 12

also is the 35th anniversary of the first manned

Russian rocket launch of

Yuri Gagarin. The city

of Nassau Bay, the sister

city of Star City, Russia,

previously had planned and announced

the first annual Russian Festival for April

12-13. JSC and Nassau

Bay have combined the

events. The festival celebrates

both anniversaries along with highlighting the

increased cooperative space initiatives between the

U.S. and Russia.

Tickets are on sale at the Bldg. 11 Exchange

Store. Ticket prices for the combined festival at

Space Center Houston, will be \$5 for ages 5 and up

and are available through April 12. The first 1,000

tickets sold at the Exchange Store will include a commemorative

button of the STS-1 15th anniversary. A limited number of

tickets will be available for purchase at the door. Parking at

SCH is free.

All exhibits and activities available at SCH, except

tram tours, will be open for festival participants.

Optional food purchases can be made at the Silver

Moon Cafe. Live entertainment will include a Russian

Dance Troupe, Troika Band and the Lone Star

Bluegrass Band.

For information call the Exchange Store at x35350.

## Lucid feels 'at home' on Mir

(Continued from Page 1)

Most of the day Monday was spent transferring water, hardware and logistical supplies and conducting experiments in the Spacehab module. The crew successfully docked *Atlantis* to *Mir* at 8:43 p.m. last Saturday. Chilton guided the shuttle to a linkup and less than two hours later Lucid greeted her *Mir* 21 crew mates on the station. Lucid will remain on the station until August when *Atlantis* will return to bring her home and Astronaut John Blaha will replace Lucid to begin his stay on the Russian outpost.

"When we floated in (to *Mir*) it felt pretty much like I was coming home because I have been in the trainer in Star City quite a few of times," Lucid said. "I felt very comfortable coming in and of course Yuri and Yuri were

there and they welcomed us very warmly. It's sort of like coming back home and seeing your friends. Yuri and Yuri have gone out of their way to make all of us feel very welcomed and comfortable here in their home."

The STS-76 mission began a day late as high winds delayed a launch until 2:13 a.m. Friday. While flight controllers noticed a leak during launch in one of the three redundant hydraulic lines on *Atlantis*, once in orbit no indication of a leak was observed. The system is used to operate the shuttle's steering equipment during launch and landing and still contains sufficient fluid for a landing on Sunday.

For the latest information on the *Atlantis* crew's welcome home ceremony, call the recorded Employee Information Service at x36765.

## Space News Roundup

The Roundup is an official publication of the National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston, Texas, and is published every Friday by the Public Affairs Office for all space center employees.

The Roundup office is located in Bldg. 2, Rm. 181. The mail code is AP2. The main Roundup telephone number is x38648 and the fax number is x45165.

Electronic mail messages should be sent to the editor, khumphri@gp301.jsc.nasa.gov or the associate editor, kschmidt@gp301.jsc.nasa.gov.

Editor ..... Kelly Humphries  
Managing Editor ..... Karen Schmidt

## Coffee makers pose safety problems

(Continued from Page 1)

involve electricity, and at least 10 percent of those result from faulty power strips."

The most unusual electrical report was a coffee pot that burned itself up after being left on for an extended period of time. The Mr. Coffee brand coffee maker ignited with coffee still in the carafe. The small fire resulted in damage to the adjacent microwave oven and small refrigerator, but with minimal damage to the room. Many coffee makers are used on site, so precautions are a necessity to prevent mishaps. If a coffee maker is to be left on for more than six hours, it should be of commercial quality. It should not be left unattended and placement should be a consideration.

Most potential electrical situations can be avoided if basic precautions

are used, Clem said.

"Use only Underwriter's Laboratories rated electrical devices, including surge protectors," Clem said. "Look for a UL sticker. If it's not there, get a new device. It's a good idea to periodically check the electrical devices in work areas. Make sure power strips are not coming apart and check electrical wires for frayed insulation. Turn off, unplug, or stay away from anything that is sparking or seems defective. Call work control at x32038 to report any problems."

On April 2, employees can further educate themselves on electrical hazards by attending the Electrical Safety Fair in the Teague Auditorium from 10-2 p.m. Houston Lighting and Power will present various demonstrations and several on-site organizations also will participate.